Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No: Second and Part Bill Date……2018

Division: **Project** Sub-Division: **Project**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No…….. Dated……

Schedule Docket No. Head of Account: P-3242 **Work Code:003-18-000015** Est.Cost- **200.00 Lakhs**

Name of Work: **CONSTRUCTION OF MARRIAGE COMMUNITY HALL CHIKKABETTAHALLI VILLAGE IN WARD NO-03 OF YELAHANKA ASSEMBLY CONSTITUENCY**

Name of Contractor and Full Address: **Sri. Onkarappa H V**

Reference to Agreement No: **119/2017-18** Date: **16/02/2018**

Certified that the measurements were taken by me on 23/01/19 and recorded of Pages 220626 to 220638 of measurement Book No. 04/11-19 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 23/1/2019……and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	Total R	1.12,39601-00
2) Deduct amount to be held in reserve being ……percent Rs……	1st & part Bill R	6625321-00
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No……Dated……S.D. No……Amount adjusted towards cash advance recovery of	2nd & part Bill R	4614280-00
b) Payments / Now made: cost store or other material supplied. / recovery of amount creditable to this/other work / Amount paid on this bill Cheque / Cash.	IT.	- 46143-00
	CCS	- 46143-00
	CBF	- 4614-00
	LR	- 53291-00
5) Balance being unpaid value of work done held in reserve.	CGST	- 41199-00
6) Deduct cash advance made on the Office cash Book Voucher No…… dated……less adjustments.	SGST	- 41199-00
7) Net amount due to or from Contractor	unadjustments items.	
8) Advance to Contractor for materials brought to site (as detailed) within.	Adju.	232589-00
9) Value of Government materials supplied.	Total amount adjusted-	43,81,691-00

Contractor's Signature

Received Rs…….. (in words)……

……

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands) (For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Stamp

Paid by me by Cheque No……Dated……

Cash Rs……..

Dated……

Initials of Officer making payment

Audited & Admitted for Rs……

Rs: 46,14,280-00

……Executive Engineer

Rs: 43,81,691-00 by Cheque

and Rs. 232589-00 by Adjustment

Accts. Supdt. 01/02
Project Division
BBMP

Exe. Engineer
Project Division
BBMP

Name of Work: CONSTRUCTION OF MARRIAGE COMMUNITY HALL, CHIKKABETTAHALLI VILLAGE IN WARD NO-03 OF YELAHANKA ASSEMBLY CONSTITUENCY

Name of the Agency : Sri H.V.Onkarappa

Work Order no: No.EE(Project)/Ynk Zone/WO/119/2017-18

SECOND AND PART BILL

Item no	Description of work	Unit	Estimate Qnty	Previous		Present			Total up to date	
				Qnty	Amount	Qnty	Rate	Amount	Qnty	Amount
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm,, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials to be used or auctioned,s including removal and disposal of top organic soil not exceeding 150 mm in thickness as per specifications. I. By Manual I Means, A, In area of light jungle.	Ha	0.61	0.61	35420.87	0.00	58067.00	0.00	0.61	35420.87
2	Compaction of original ground with maximum of 6 passes of 8 to 10 tones power roller including filing in depression occurring during rolling including cost of all labour, HOM of machinery complete as per specifications.	Cum	183.00	183.00	1098.00	0.00	6.00	0.00	183.00	1098.00
3	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.	Cum	183.00	183.00	34038.00	0.00	186.00	0.00	183.00	34038.00
4	KSRB 2-2.2: Earthwork excavation by manual means for foundation of buildings,water supply,sanitary lines and electrical conduits either in pis or in trenches1.5m and above in width,in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits & trenches ,stacking the excavated soil clear from the edges of excavation with lead upto 50m after breaking of clods complete as per specifications. specification	Cum	259.83	0.00	0.00	0.00	336.00	0.00	0.00	0.00
5	KSRB4-1.3:- Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed concrete laid layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials, labour. HOM of mahinery, curing complete as per specifications .	Cum	35.66	22.17	128186.94	0.00	5782.00	0.00	22.17	128186.94
6	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, Pedastals, retaining walls, return walls (any thickness) including attached pilasters, columns, pillars, posts, struts, bed blocks, anchor blocks and Plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.	Cum	69.36	86.70	640713.00	0.00	7390.00	0.00	86.70	640713.00
	Qnty Above 125%	Cum		39.64	292801.65	0.00	7386.52	0.00	39.64	292801.65
7	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth, compacting each deposited layers by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.	Cum	145.94	0.00	0.00	0.00	151.00	0.00	0.00	0.00
8	Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortor 1:8,stone hammer dressed in courses less than 20 cms high.bond stones at 2 m apart in each course, including cost of all materials ,labour, curing complete as per specification.	Cum	34.36	42.95	205945.25	0.00	4795.00	0.00	42.95	205945.25
	Qnty Above 125%	Cum		22.25	106651.82	0.00	4793.34	0.00	22.25	106651.82

9	[illegible] @ 1:2:4, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplastisiser @ 3lts confirming to I59103: 1999 Reaffirmed 2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in Ground Floor Level for Roof Slabs, Staircase, Lintels and Beams, retaining walls, return walls, Walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, Parapets, Coping, bed blocks, anchor blocks, Plain Window Cills, Fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. (Ground Floor)	Cum	93.84	104.00	786656.00	0.00	7564.00	0.00	104.00	656.00
10	First Floor	Cum	70.29	0.00	0.00	70.29	7623.00	535820.67	70.29	535820.67
11	Second Floor	Cum	120.90	0.00	0.00	89.15	7682.00	684830.56	89.15	684830.56
12	Terrace floor (Head room)	Cum	8.06	0.00	0.00	0.00	7742.00	0.00	0.00	0.00
13	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specification Specification No. KBS 4.6.2 (PWD, S.R. 2016-17)(PWD, S.R. 2016-17)	Sqm	252.40	234.85	62939.80	0.00	268.00	0.00	234.85	62939.80
14	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, (Sl.No 4.34, Pge No, 16), (PWD, S.R. 2016-17)(Page No. 15, item No. 4.34) Ground floor	Sqm	331.20	370.57	112653.28	0.00	304.00	0.00	370.57	112653.28
15	First floor	Sqm	202.44	0.00	0.00	202.44	310.00	62756.40	202.44	62756.40
16	Second floor	Sqm	408.00	0.00	0.00	297.16	316.00	93902.56	297.16	93902.56
17	Terrace	Sqm	22.78	0.00	0.00	0.00	322.00	0.00	0.00	0.00
18	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications. Ground floor	Sqm	168.77	194.98	84621.32	0.00 99.01	434.00	0.00 43564	194.98 99.01	84621.32 43564
19	first floor	Sqm	115.51	0.00	0.00	99.06	440.00	43588.51	99.06	43588.51
20	Second floor	Sqm	114.00	0.00	0.00	85.50	447.00	38218.50	85.50	38218.50
21	Terrcae	Sqm	44.80	0.00	0.00	0.00	453.00	0.00	0.00	0.00
22	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specifications. GF Slabs	Sqm	281.40	302.96	197832.88	0.00	653.00	0.00	302.96	197832.88
23	FF Slabs	Sqm	223.88	0.00	0.00	223.88	660.00	147760.80	223.88	147760.80
24	SF Slabs	Sqm	451.20	0.00	0.00	0.00	665.00	0.00	0.00	0.00
25	Terrace headroom slab	Sqm	17.67	0.00	0.00	0.00	671.00	0.00	0.00	0.00
26	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons. ground floor	Sqm	30.45	30.04	9132.16	0.00	304.00	0.00	30.04	9132.16
27	first floor	Sqm	20.95	0.00	0.00	20.95	310.00	6494.50	20.95	6494.50
28	Second floor	Sqm	25.50	0.00	0.00	25.50	316.00	8058.00	25.50	8058.00
29	terrace	Sqm	2.10	0.00	0.00	0.00	322.00	0.00	0.00	0.00
30	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stair (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. ground floor	Sqm	30.52	38.15	14153.65	0.00	371.00	0.00	38.15	14153.65
	Qnty Above 125%	Sqm		28.19	10458.49	0.00	371.00	0.00	28.19	10458.49
31	first floor	Sqm	10.36	0.00	0.00	10.36	577.00	5977.72	10.36	5977.72
32	Second floor	Sqm	10.36	0.00	0.00	10.36	583.00	6039.88	10.36	6039.88

		Sqm	21.78	21.73	8713.60	0.00	320.00	0.00		
	Qnty Above 125%	Sqm		0.95	304.00	0.00	320.00	0.00	0.95	304.00
34	First floor	Sqm	20.34	0.00	0.00	9.36	321.00	3004.56	9.36	3004.56
35	Second floor	Sqm	20.52	0.00	0.00	20.52	332.00	6812.64	20.52	6812.64
36	Head room	Sqm	2.52	0.00	0.00	0.00	339.00	0.00	0.00	0.00
37	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 kgs, with 12mm and down size graded granite metal coarse aggregates @ 0.05865 cum and line agregtes @ 0.0391 cum, with superplastisiser @ 0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing complete but cxcluding cost of reinforcement as per specifications. ,ground floor	Sqm	21.78	21.78	13307.58	0.00	611.00	0.00	21.78	13307.58
38	first floor	Sqm	20.34	0.00	0.00	7.20	617.00	4442.40	7.20	4442.40
39	Second floor	Sqm	20.52	0.00	0.00	19.83	622.00	12334.26	19.83	12334.26
40	Head room	Sqm	2.52	0.00	0.00	0.00	628.00	0.00	0.00	0.00
41	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT bars Fe 500 Ground Floor	Tonne	14.22	17.78	1492826.58	0.00	83961.00	0.00	17.78	1492826.58
	Qnty Above 125%	Tonne		10.75	773551.51	0.00	71958.28	0.00	10.75	773551.51
42	First floor	Tonne	7.83	0.00	0.00	7.83	84522.00	661807.26	7.83	661807.26
43	Second floor	Tonne	13.31	0.00	0.00	13.31	85083.00	1132454.73	13.31	1132454.73
44	Terrace floor (Head room)	Tonne	1.20	0.00	0.00	0.00	85644.00	0.00	0.00	0.00
45	Providing and constructing load beraing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800 kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to I.S 2185 (Part I) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing hire charges of machineries etc. complete as per specifications. Ground floor	Sqm	212.22	201.45	224213.85	0.00	1113.00	0.00	201.45	224213.85
46	First floor	Sqm	233.46	0.00	0.00	233.46	1148.00	268012.08	233.46	268012.08
47	Second floor	Sqm	239.31	0.00	0.00	239.31	1185.00	283582.35	239.31	283582.35
48	Head room	Sqm	42.27	0.00	0.00	0.00	1220.00	0.00	0.00	0.00
49	Providing and constructing load beraing wall with solid concrete blocks of size 400x150x200mm having block density not less than 1800 kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to I.S 2185 (Part I) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing hire charges of machineries etc. complete as per specifications.	Sqm	72.00	0.00	0.00	72.00	1129.00	81288.00	72.00	81288.00
50	Providing and constructing non-load bearing wall with cement concrete solid blocks with compressive strength not less than 3.5 Newton per Sqmm with cement mortar 1:4 (quoin, Jamb, closer blocks) with blocks of size 40x10x20cms. (lxbxh) conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Ground floor	Sqm	46.50	46.50	44547.00	0.00	958.00	0.00	46.50	44547.00
51	First Floor	Sqm	21.15	0.00	0.00	14.85	993.00	14746.05	14.85	14746.05
52	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggrigate @0.85cum and fine aggrigates @0.57cum machine mixed,machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. ,Ground floor	Sqm	30.26	37.83	218695.23	0.00	5781.00	0.00	37.83	218695.23
	Qnty Above 125%	Sqm		7.56	43688.03	0.00	5778.84	0.00	7.56	43688.03
53	First floor	Sqm	27.48	0.00	0.00	27.48	5841.00	160510.68	27.48	160510.68

	[illegible]	Sqm	261.28	0.00	0.00	0.00	1424.00	0.00	0.00	0.00
56	Providing and laying in any pattern of approved make, shade and size for flooring treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement matching colour pigment, including cost of materials, labour, curing, complete as per specifications (size 30 x 30 cms) Ground floor	sqm	35.52	0.00	0.00	0.00	1397.00	0.00	0.00	0.00
57	First floor	sqm	7.20	0.00	0.00	0.00	1398.00	0.00	0.00	0.00
58	Second floor	sqm	23.50	0.00	0.00	0.00	1400.00	0.00	0.00	0.00
59	Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. - Colour glazed tiles 30X45 cms, 6mm thick with bordor of size 30X10cms Ground floor	sqm	112.98	0.00	0.00	0.00	1329.00	0.00	0.00	0.00
60	First Floor	sqm	32.13	0.00	0.00	0.00	1331.00	0.00	0.00	0.00
61	Second Floor	sqm	97.86	0.00	0.00	0.00	1333.00	0.00	0.00	0.00
62	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification.First floor	Sqm	297.23	0.00	0.00	0.00	4423.00	0.00	0.00	0.00
63	Second floor	Sqm	198.41	0.00	0.00	0.00	4425.00	0.00	0.00	0.00
64	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc.,complete., (Sl. No. 4.51, Page No. 109), (SR 2016-2017),ground floor	Sqm	59.75	0.00	0.00	0.00	4736.00	0.00	0.00	0.00
65	first floor	Sqm	12.22	0.00	0.00	0.00	4738.00	0.00	0.00	0.00
66	Second floor	Sqm	12.22	0.00	0.00	0.00	4741.00	0.00	0.00	0.00
67	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including curing etc., complete. ,ground floor	Sqm	39.57	0.00	0.00	0.00	4190.00	0.00	0.00	0.00
68	First Floor	Sqm	30.93	0.00	0.00	0.00	4191.00	0.00	0.00	0.00
69	Second Floor	Sqm	51.21	0.00	0.00	0.00	4193.00	0.00	0.00	0.00
70	Providing and fixing 20mm thick gang saw water cut LAKARED granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification ,First floor	Sqm	317.76	0.00	0.00	0.00	4391.00	0.00	0.00	0.00
71	Second Floor	Sqm	342.42	0.00	0.00	0.00	4393.00	0.00	0.00	0.00
72	Providing Math/Nandi wood frames of doors ,windows, clerestory windows, ventilatorsand other frames,wroughtframed or assembled including making plaster grooves(excluding cost of cement concrete and side clamps),but including cost of materials,labour ,HOM of machineries, complete as per specifications. Specification No.KBS9.33 Ground floor	Cum	0.46	0.00	0.00	0.00	95980.00	0.00	0.00	0.00
73	First floor	Cum	0.19	0.00	0.00	0.00	95984.00	0.00	0.00	0.00
74	Second floor	Cum	0.13	0.00	0.00	0.00	95988.00	0.00	0.00	0.00

74	~~...bottom and lock rails 180 mm wide top rails and styles 100 mm wide as per~~ drawing and panels of 25 mm thick including cost of materials , labour HOM of machinery complete as per specifications (excluding cost of fixtures)Ground floor	Sqm	21.00	0.00	0.00	0.00	4662.00	0.00	0.00	0.00
76	First floor	Sqm	10.47	0.00	0.00	0.00	4666.00	0.00	0.00	0.00
77	Second floor	Sqm	13.23	0.00	0.00	0.00	4670.00	0.00	0.00	0.00
78	Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mm x 18mm, 1.25mm thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc. and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steels crews, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any rust and coated with greasy for non adhesion of mortor and other sticky materials: (this coating should be cleaned after	Sqm	42.24	0.00	0.00	0.00	4630.00	0.00	0.00	0.00
79	First floor	Sqm	42.72	0.00	0.00	0.00	4634.00	0.00	0.00	0.00
80	Second floor	Sqm	39.36	0.00	0.00	0.00	4637.00	0.00	0.00	0.00
81	Providing and fixing M.S.grill work for windows and ventilators using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications., - APPROXIMATE 20KG/SQM Ground floor	Sqm	844.80	0.00	0.00	844.80	93.00	78566.40	844.80	78566.40
82	First floor	Sqm	854.40	0.00	0.00	854.40	98.00	83731.20	854.40	83731.20
83	Second floor	Sqm	787.20	0.00	0.00	787.20	104.00	81868.80	787.20	81868.80
84	Providing , fabricating , assembing and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505 kg/m , top section 47.62x44.45mm thickness 3.18mm, section weight 2.646 kg/m, door central section 49.91x44.45mm thickness 3.00mm,section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m , aluminium section cut to length joint metred corners grinded , the shutters pivoted opening arrangment with heavy duty aluminium alloy automatic door closures floor mounted ,providing and fixing standard approved accessories , such as aluminium handle for full width or length, tower bolts, lock , pivots :P.V.C.or rubber gasket with 5.5m.thick plain glass for top and bottom panel: aluminium section treated for removel of any rust and prevention of further rust formation,and coated with greasy materials for non - adherance of mortars or any other stick materials; the assemble frame fitted with the corner angles, strips and fitted with screws ,rawl plugs or teakwood guttise to R.C.C.columns or masonry on sides. beams and flooring in bottom. including cutting , chistling and making good with cement mortar to match the surface	Sqm	12.60	0.00	0.00	0.00	7390.00	0.00	0.00	0.00
85	First Floor	Sqm	3.15	0.00	0.00	0.00	7394.00	0.00	0.00	0.00
86	Second Floor	Sqm	12.60	0.00	0.00	0.00	7397.00	0.00	0.00	0.00
87	Providing fixtures with made brass /SS CP of appoved quality for Main doors, Internal and Toilet doors,), Hinges 5" heavy duty,	No.	174.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00
88	Door Lock	No.	29.00	0.00	0.00	0.00	507.00	0.00	0.00	0.00
89	Tower Bolt 300mm long	No.	58.00	0.00	0.00	0.00	146.00	0.00	0.00	0.00
90	Aluminum handles - 15cms	No.	58.00	0.00	0.00	0.00	73.00	0.00	0.00	0.00
91	Locking Arrangements	No.	29.00	0.00	0.00	0.00	800.00	0.00	0.00	0.00
92	40mm Screws	No.	1044.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00

93	scaffolding, including cost of materials, labour, curing complete as per specifications.Extra for providing and mixing waterproofing compound in cement plaster work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:4, 18mm thick cost of materials complete as per specifications. Ground floor	Sqm	66.36	0.00	0.00	0.00	244.00	0.00	0.00	0.00
94	first floor	Sqm	65.88	0.00	0.00	0.00	256.00	0.00	0.00	0.00
95	Second floor	Sqm	86.64	0.00	0.00	0.00	268.00	0.00	0.00	0.00
96	Terrace Head room	Sqm	128.51	0.00	0.00	0.00	280.00	0.00	0.00	0.00
97	Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing etc. complete as per specifications. ,Ground floor	Sqm	263.16	0.00	0.00	0.00	198.00	0.00	0.00	0.00
98	First floor	Sqm	374.40	0.00	0.00	0.00	198.00	0.00	0.00	0.00
99	Second floor	Sqm	528.18	0.00	0.00	0.00	198.00	0.00	0.00	0.00
100	Head room	Sqm	45.87	0.00	0.00	0.00	198.00	0.00	0.00	0.00
101	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc. complete as per specification. ,GF Slabs	Sqm	281.40	0.00	0.00	0.00	229.00	0.00	0.00	0.00
102	FF Slabs	Sqm	223.88	0.00	0.00	0.00	229.00	0.00	0.00	0.00
103	SF Slabs	Sqm	451.20	0.00	0.00	0.00	229.00	0.00	0.00	0.00
104	Terrace headroom slab	Sqm	17.67	0.00	0.00	0.00	229.00	0.00	0.00	0.00
105	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - a) 100% for fresh surface, b) Upto 10 % for repainting, GF	Sqm	263.16	0.00	0.00	0.00	66.00	0.00	0.00	0.00
106	FF	Sqm	374.40	0.00	0.00	0.00	66.00	0.00	0.00	0.00
107	SF	Sqm	528.18	0.00	0.00	0.00	66.00	0.00	0.00	0.00
108	Head room	Sqm	45.87	0.00	0.00	0.00	66.00	0.00	0.00	0.00
109	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after throughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. do with primer, GF	Sqm	263.16	0.00	0.00	0.00	107.00	0.00	0.00	0.00
110	FF	Sqm	374.40	0.00	0.00	0.00	107.00	0.00	0.00	0.00
111	SF	Sqm	528.18	0.00	0.00	0.00	107.00	0.00	0.00	0.00
112	Head room	Sqm	45.87	0.00	0.00	0.00	107.00	0.00	0.00	0.00
113	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered meterial, free from mortor drops and other foreign matters cost of meterials, labour, complete as per specifications. GF	Sqm	66.36	0.00	0.00	0.00	200.00	0.00	0.00	0.00
114	FF	Sqm	65.88	0.00	0.00	0.00	200.00	0.00	0.00	0.00
115	SF	Sqm	86.64	0.00	0.00	0.00	200.00	0.00	0.00	0.00
116	Head room	Sqm	128.51	0.00	0.00	0.00	200.00	0.00	0.00	0.00
117	Providing and fixing Stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50 mm dia 16 guage hallow pipe welded to vertical hallow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour HOM of machineries and electrical charges etc complete as per specifications.	Sqm	18.00	0.00	0.00	0.00	7302.00	0.00	0.00	0.00

		Sqm	44.30	0.00	0.00	0.00	7314.00			
120	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS.	Sqm	205.50	0.00	0.00	0.00	1083.00	0.00	0.00	0.00
121	Providing and laying integral cement based waterproofing treatment including preparation of surface as required treatment of roofs, balconies, terraces etc., consisting following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound confirming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% cement mortar 1:5 admixed with proprietary water proofing compound confirming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height incluing rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound. (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flodded with water for a minimum period of two weeks for curing and for final test including cost of all materials, labour complete as per specifications.	Sqm	441.00	0.00	0.00	0.00	955.00	0.00	0.00	0.00
122	Sanitory and water supply : KSRB 11-6: Providing & fixing white vitreous china clay , water closet European type (Pedestal type , S-Trap) with black solid plastic seat and lid . CP Brass hinges , rubber buffers, 10 litre white glazed / vitreous china clay low level flushing cistern (all are approved make) with fittings C.I. /M.S. Brackets , 40 mm diameter flush bend fittings and clamps over flow arrangement with specials and 25 mm mosquito proof coupling of approved design , painting of fittings and brackets ,cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. (PWD, S.R. 2016-17)(p 77,, Item No.12.6)	Nos.	18.00	0.00	0.00	0.00	5886.00	0.00	0.00	0.00
123	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a single of 15mm C.P brass pillar taps with C.I / M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	25.00	0.00	0.00	0.00	4615.00	0.00	0.00	0.00
124	Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Nos.	15.00	0.00	0.00	0.00	8090.00	0.00	0.00	0.00
125	Providing and fixing in position chromium plated brass shower rose with 15 or 20mm inlet 150mm dia including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Nos.	8.00	0.00	0.00	0.00	1011.00	0.00	0.00	0.00
126	Providing and fixing in position brass bib cock of approved quality 20 mm dia nominal bore including cost of materials, labour HOM of equipments with all leads complete with specifications	Each	58.00	0.00	0.00	0.00	288.00	0.00	0.00	0.00
127	SOIL & WASTE PIPE SYSTEM - INTERNAL Providing and fixing to wall, ceiling and floor unplasticised PVC 6kgs/sqm working pressure with pipe fittings, walll clips etc. and making good the wall , ceiling and floor for sanitary pipe lines including cost of all materials, labour HOM of acquirements and testing complete as per specifications. a) 75 mm dia	Rmt	108.80	0.00	0.00	0.00	333.00	0.00	0.00	0.00
128	b) 110 mm dia	Rmt	108.80	0.00	0.00	0.00	490.00	0.00	0.00	0.00

130	[illegible] cost of materials and fixtures and conveyance of materials to work spot).	No.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
131	Constructing brick masonry inspection chamber 600X600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M-15 with 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3 finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.	No.	15.00	0.00	0.00	0.00	10638.00	0.00	0.00	0.00
132	WATER SUPPLY SYSTEM - INTERNAL Providing and fixing CPVC pipes confirming to IS 15778 , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mt spacing . This includes jointing of pipes and fittings with one stepCPVC Solvent cement and cost of cutting chases and making good the same including testing of joints complete (concealed work including cutting chasea and good the walls etc.) 32mm dia	Rmt	108.00	0.00	0.00	0.00	369.00	0.00	0.00	0.00
133	25mm dia	Rmt	108.00	0.00	0.00	0.00	297.00	0.00	0.00	0.00
134	Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications	Each	12.00	0.00	0.00	0.00	187.00	0.00	0.00	0.00
135	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screed end) 5 mm nominal bore including cost of all materials , labour , HOM of equipments ith all lead , complete as per specifications a) 32 mm dia	Nos	12.00	0.00	0.00	0.00	1156.00	0.00	0.00	0.00
136	Core cutting for taking pipes and bore packing water tight with cement concrete and waterproof	LS	5.00	0.00	0.00	0.00	11000.00	0.00	0.00	0.00
137	EXTERNAL SEWAGE SYSTEM Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m.and above in width, in ordinary soil not exceeding 1.5m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Cum	33.60	0.00	0.00	0.00	225.00	0.00	0.00	0.00
138	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 (PWD, S.R. 2016-17)(p 170,, Item No.11.2)	Rmt	28.00	0.00	0.00	0.00	420.00	0.00	0.00	0.00
139	Refilling available earth around the pipeline, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.	cum	33.60	0.00	0.00	0.00	90.00	0.00	0.00	0.00
140	Providing stoneware gully trap of approved quality and make fixing inm-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). (15cms x10cms)	No.	15.00	0.00	0.00	0.00	321.00	0.00	0.00	0.00
141	EXTERNAL WATER SUPPLY SYSTEM: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m.and above in width, in ordinary soil not exceeding 1.5m.in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	cum	33.60	0.00	0.00	0.00	224.00	0.00	0.00	0.00

143	[illegible] compacting each deposited layer by ramming after watering and lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications	cum	33.60	0.00	0.00	0.00	90.00	0.00	0.00	0.00
144	Providing and fixing 50mm dia nominal bore gun metal full bore ratio horizontal type of approved make including cost of all materials labour charges hire of equipments and testing complete as per specifications	No.	12.00	0.00	0.00	0.00	1777.00	0.00	0.00	0.00
145	Providing and placing on terrace , polyethylene water storage tanks (1000 ltr capacity)	No.	2.00	0.00	0.00	0.00	10058.00	0.00	0.00	0.00
146	Sump tank : Earthwork excavation for foundation of structures as per drawings and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising /transporting the remaining earth locally upto1.0kms lead - Ordinary Rock (not required blasting)- Manual means	Cum	24.58	0.00	0.00	0.00	84.00	0.00	0.00	0.00
147	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC Cement @220kgs with 40mm and down size graded granite metal coarse aggregate @0.892 cum and fine aggregates @0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, 110M of machinery, curing complete as per specifications . Specification No. KBS4.1,4.2 (PWD, S.R. 2016-17)(Page No. 12, Item No.4.2)	Cum	1.02	0.00	0.00	0.00	5994.00	0.00	0.00	0.00
148	Providing and laying in position reinforced cement concrete of design I mix M25 with with OPC Cement @340 kgs with 20mm and down size graded granite metal coars aggregates @0.70 cum and fine aggregates @ 0.47cum with superplasticisers @3liters confirming to IS9103-1999 Reaffirmed -2008 at machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings , pedestals , retaining walls ,return walls ,walls(any thickness) including attached pilasters, columns , pillars, posts , struts, buttresses, bed blocks,, anchor blocks & plinth etc.including cost of all materials, labour, HOM of machinary, curing complete as per specifications.	Cum	2.16	0.00	0.00	0.00	7390.00	0.00	0.00	0.00
149	Extra for use of water proofing compound in Cement concrete of mix 1:1:2, at one kg of compound per bag of cement.	Cum	1.80	0.00	0.00	0.00	302.00	0.00	0.00	0.00
150	Providing and removing centering, shuttering, strutting, propping etc., and removal of from work for sides and soffits of beams, beam haunchings, cantilever griders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications.	Sqm	11.88	0.00	0.00	0.00	304.00	0.00	0.00	0.00
151	Providing and removing centering, shuttering, strutting, propping etc., and removal of from work for flat surface such as suspended floors, roofs landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specificationSpecification No. KBS 4.6.2 - 0-5.0mts Ht	Sqm	9.00	0.00	0.00	0.00	653.00	0.00	0.00	0.00
152	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/cum having a minimum average compressive strength of 4.00N/mm2 confirming to IS 2185(Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding , curing , hire charges of machineries etc., complete as per specfications . KBS No.5.4 with solid concrete blocks of size 40x20x20cm	Sqm	28.80	0.00	0.00	0.00	1113.00	0.00	0.00	0.00
153	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT bars Fe 500	Tonne	0.21	0.00	0.00	0.00	83961.00	0.00	0.00	0.00

154	[illegible] with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
155	Providing 20 mm thick cement plaster in single coat with CM 1:3 to stone masonry / concrete surface including rounding off corners wherever required smooth rendering: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification	Sqm	34.20	0.00	0.00	0.00	308.00	0.00	0.00	0.00
156	KSRB 15-3.13: Providing 12mm thick cement plastering in single coat with cement mortar 1:3 to ceiling I including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification. (PWD, S.R. 2016-17)(Page No. 114, Item No. 15.21)	Sqm	8.64	0.00	0.00	0.00	212.00	0.00	0.00	0.00
157	Providing and fixing M5 door for sump including cost of labour, materials and one coat of primer paint and two coats of enamel painting etc, as directed by the engineer in charge of work (PWD, S.R. 2016-17)	Sqm	0.36	0.00	0.00	0.00	4158.00	0.00	0.00	0.00
158	Electrical Work: Open Conduit System Supplying heavy gauge PVC conduit pipe .....dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.(Page No. 2, Item No.1.1.1 & 1.1.2) a) 19/20mm dia 2mm thick	Mtr	394.00	0.00	0.00	0.00	59.00	0.00	0.00	0.00
159	b) 25mm dia 2mm thick	Mtr	250.00	0.00	0.00	0.00	77.00	0.00	0.00	0.00
160	Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary. a) 19/20mm dia 2mm thick	Mtr	60.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00
161	b) 25mm dia 2mm thick	Mtr	35.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
162	Groove Cutting : Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary. a) 19/20mm dia 2mm thick	Mtr	45.00	0.00	0.00	0.00	63.00	0.00	0.00	0.00
163	b) 25mm dia 2mm thick	Mtr	39.00	0.00	0.00	0.00	64.00	0.00	0.00	0.00
164	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall(a) 1-3Way	Nos	125.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
165	b) 4-5Way	Nos	110.00	0.00	0.00	0.00	108.00	0.00	0.00	0.00
166	c) 6Way	Nos	60.00	0.00	0.00	0.00	133.00	0.00	0.00	0.00
167	d) 8Way	Nos	40.00	0.00	0.00	0.00	153.00	0.00	0.00	0.00
168	e) 10-12Way	Nos	20.00	0.00	0.00	0.00	175.00	0.00	0.00	0.00
169	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.(Page No. 16, Item No.3.6.1 to 3.6.5) a) 1-3Way	Each	135.00	0.00	0.00	0.00	120.00	0.00	0.00	0.00
170	b) 4-5Way	Each	125.00	0.00	0.00	0.00	134.00	0.00	0.00	0.00
171	c) 6Way	Each	80.00	0.00	0.00	0.00	190.00	0.00	0.00	0.00
172	d) 8Way	Each	60.00	0.00	0.00	0.00	220.00	0.00	0.00	0.00
173	e) 10-12Way	Each	40.00	0.00	0.00	0.00	294.00	0.00	0.00	0.00
174	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. a) 6Amps one way	Each	65.00	0.00	0.00	0.00	69.00	0.00	0.00	0.00
175	b) 6Amps 3way socket	Each	42.00	0.00	0.00	0.00	105.00	0.00	0.00	0.00
176	c) Stepped Fan Regulator	Each	40.00	0.00	0.00	0.00	315.00	0.00	0.00	0.00
177	d) 16Amps one way switch	Each	20.00	0.00	0.00	0.00	135.00	0.00	0.00	0.00

180	[illegible] conforming to the GTP, without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC round block. complete for each outlet. (a) Short point up to 3Mtr from tapping point to out let via switch box	Each	36.00	0.00	0.00	0.00	158.00	0.00	0.00	0.00
181	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	Each	90.00	0.00	0.00	0.00	236.00	0.00	0.00	0.00
182	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box	Each	30.00	0.00	0.00	0.00	367.00	0.00	0.00	0.00
183	d) Two Outlet in a row, above 3.0M unto 6.0M from tapping point to outlet via switch box.	Each	15.00	0.00	0.00	0.00	465.00	0.00	0.00	0.00
184	e) Three Outlet in a row, above 6.0M unto 10.0M from tapping point to outlet via switch box.	Each	6.00	0.00	0.00	0.00	652.00	0.00	0.00	0.00
185	Supplying and fixing metal Fan box with Round Hook. (Page No. 3, Item No. 1.12)	Each	18.00	0.00	0.00	0.00	101.00	0.00	0.00	0.00
186	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A . a) 1.5 sqmm	Mtr	250.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00
187	b) 2.5 sqmm	Mtr	500.00	0.00	0.00	0.00	32.00	0.00	0.00	0.00
188	c) 25mm dia 2mm thick	Mtr	150.00	0.00	0.00	0.00	46.00	0.00	0.00	0.00
189	d) 6 sqmm	Mtr	50.00	0.00	0.00	0.00	70.00	0.00	0.00	0.00
190	e) 10 sqmm	Mtr	20.00	0.00	0.00	0.00	118.00	0.00	0.00	0.00
191	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mountin using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting. Made out of 14 SWG M.S enclosure. Double door a) 4 way TP & N	Mtr	3.00	0.00	0.00	0.00	2638.00	0.00	0.00	0.00
192	b) 6 way TP & N	Mtr	3.00	0.00	0.00	0.00	3153.00	0.00	0.00	0.00
193	b) 12 way SP & N	Mtr	3.00	0.00	0.00	0.00	1784.00	0.00	0.00	0.00
194	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 (Page No. 47, Item No. 6.16.1, 6.16.6, 6.16.5)) a) 5-32Amps SP	Each	14.00	0.00	0.00	0.00	459.00	0.00	0.00	0.00
195	b) 5-32Amps TPN	Each	15.00	0.00	0.00	0.00	1701.00	0.00	0.00	0.00
196	c) 40-63Amps TPN	Each	9.00	0.00	0.00	0.00	2129.00	0.00	0.00	0.00
197	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board. a) 16-25Amps 2Pole	Each	13.00	0.00	0.00	0.00	2653.00	0.00	0.00	0.00
198	b) 32-40Amps 4Pole	Each	13.00	0.00	0.00	0.00	3685.00	0.00	0.00	0.00
199	Fabricating supplying and mounting MS box made out ...SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete	Sqcm	8500.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00
200	Supplying .....amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenoliciFRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 100Amps 4x30x6mm Aluminum Strips	mtr	3.00	0.00	0.00	0.00	2348.00	0.00	0.00	0.00
201	Supplying fixing angle iron frame work fabricated out of M.S angle iron .. And m.S flat.... With bolts, washers etc., and painted with two coats of red oxide and then two coats of approved paint. a) 40x40x6 mm	mtr	3.00	0.00	0.00	0.00	289.00	0.00	0.00	0.00
202	a) 50x100x50x6 mm	mtr	3.00	0.00	0.00	0.00	713.00	0.00	0.00	0.00

203	Supplying and fixing moulded case circuit breaker in existing distribution board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS: 13947. (Ieu= Ics)FOUR POLE 100Amps 25kA	Each	3.00	0.00	0.00	0.00	6389.00	0.00	0.00	0.00
204	Supplying of multi function degital meter with three line backlight LED type display for voltage , current frequency, power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54degree of protection and completely wired as required with communication port and class 0.5s accuracy. FOUR POLE 100Amps 25kA	Each	3.00	0.00	0.00	0.00	8803.00	0.00	0.00	0.00
205	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Each	8.00	0.00	0.00	0.00	429.00	0.00	0.00	0.00
206	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer, Class 0.5 accuracy with Tape Wound (Page No. 48, Item No. 6.32)	Each	8.00	0.00	0.00	0.00	531.00	0.00	0.00	0.00
207	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C	Each	8.00	0.00	0.00	0.00	486.00	0.00	0.00	0.00
208	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply. 100-125Amps	Each	8.00	0.00	0.00	0.00	7068.00	0.00	0.00	0.00
209	Laying of LT UG cable : Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX105q.mm wire armoured) confirming to IS-3975:1990 (No.of Strip indicated in GTP & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A a) 3.5 core 50 sqmm	Mtr	60.00	0.00	0.00	0.00	291.00	0.00	0.00	0.00
210	b) 4 core 16 sqmm	Mtr	90.00	0.00	0.00	0.00	154.00	0.00	0.00	0.00
211	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.(Page No. 61, Item No. 7.8.1 & 7.8.2) a) 25 sqmm to 75 sqmm	Mtr	90.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00
212	b) 6 sqmm 16 Sqmm	Mtr	150.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00
213	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) In soil (ordinary)	Mtr	98.00	0.00	0.00	0.00	85.00	0.00	0.00	0.00
214	providing and filling sand in exvated trench to cover already laid UG cable to a depth of 150mm alround the cable	Mtr	98.00	0.00	0.00	0.00	113.00	0.00	0.00	0.00
215	providing and laying in position 100mm dia stone ware pipe in existing trench	Mtr	58.00	0.00	0.00	0.00	245.00	0.00	0.00	0.00
216	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 65 mm	Rmt	30.00	0.00	0.00	0.00	643.00	0.00	0.00	0.00
217	Supplying and fixing L.T cast iron pot heads suitable for 1.1 Kv class UG cable filled with necessory bitumin / insulating compound Complete with terminals, clamps, bolts, nuts and washers.	Rmt	3.00	0.00	0.00	0.00	700.00	0.00	0.00	0.00
218	Supplying and fiixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 63mm dia	Each	6.00	0.00	0.00	0.00	440.00	0.00	0.00	0.00
219	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. a) 50 sqmm Long Barrel	Each	36.00	0.00	0.00	0.00	68.00	0.00	0.00	0.00
220	b) 6 sqmm	Each	36.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00
221	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Each	4.00	0.00	0.00	0.00	4748.00	0.00	0.00	0.00
222	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip 25x6mm	Mtr	60.00	0.00	0.00	0.00	136.00	0.00	0.00	0.00

223	Supplying of 2' feet - LED PVC square burning hours & 70% lumen maintenance with CRI > 80. Power input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 watts	Each	60.00	0.00	0.00	0.00	1951.00	0.00		
224	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamp.	Each	17.00	0.00	0.00	0.00	201.00	0.00	0.00	
225	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to IS5-374-1979 and with double ball bearing system. 56" Sweep (1400mm) Regular modual	Each	40.00	0.00	0.00	0.00	2659.00	0.00	0.00	0.00
226	Supplying exhaust fan of 1440 RPM of 300mm (12") sizewith bracket blades complete for light duty suitable to operate on 230V 50Hz. AC Supply	Each	25.00	0.00	0.00	0.00	1870.00	0.00	0.00	0.00
227	Fixing all types and all capacities fluorescent / false ceiling/spotlight/ CFLfittings indoor on the wall/ ceiling/rafters / girders using 23/0.0076" twin twisted RVC insulated wires, required nos of round blocks and clamps (if required)	Each	56.00	0.00	0.00	0.00	108.00	0.00	0.00	0.00
228	Fixing fluorescent light using 2mtr long 19mm 18 SWG enameled braised conduit of two Nos. rod pendent with ball socket with check nuts all nickel plated	Each	58.00	0.00	0.00	0.00	554.00	0.00	0.00	0.00
229	Fixing a ceiling /Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps.ceiling rose,necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire of approved quality, mounted on a suitable aize wooden board and wired	Each	25.00	0.00	0.00	0.00	261.00	0.00	0.00	0.00
230	Fixing a ceiling fan with extra length of GI pipe of class B 19mm dia for down rod	Each	20.00	0.00	0.00	0.00	180.00	0.00	0.00	0.00
231	Fixing one Exhast fan in the nitch already left in the wall with bolts and nets and 5 amps. Ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire.	Each	25.00	0.00	0.00	0.00	453.00	0.00	0.00	0.00
	EIRL									
E1	KSRB 2.2.6 : Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour complete as per specifications.	Cum	517.52	517.52	777930.89	1503.19 0.00	0.00	0.00	517.52	777930.89
E2	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) Filling in foundations	Cum	410.23	410.23	147100.27	358.58 0.00	0.00	0.00	410.23	147100.27
E3	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) between plinth level to ground level filling	Cum	254.17	254.17	91140.28	358.58 0.00	0.00	0.00	254.17	91140.28
E4	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms	Cum	517.52	517.52	65999.33	127 0.00	0.00	0.00	517.52	65999.33
	Grand Total				**6625321.26**			**4614284.51**		**11239605.77**

Certificate

1.The Work executed by the contractor is found satisfactory

2. The contractor hasremoved the debris from the work spot

3. Thereare no departmental issues for this work

Contractor

Consultant

Assistant Engineer

Assistant Executive Engineer